In the Claims:

 (Original) A method for producing a crystalline turbostratic boron nitride, comprising:

providing a mixture of a substantially amorphous boron nitride and an alkali-borate fluxing agent, and

crystallizing said amorphous boron nitride to said crystalline turbostratic boron nitride in the presence of an effective amount of said alkali-borate fluxing agent in a non-oxidizing atmosphere comprising an atmosphere within a vessel of a closed or quasi-closed state.

- (Original) The method of claim 1, wherein said crystallizing is carried out by heating said mixture at a temperature of about 1500° C. or below for a time period until said amorphous boron nitride is substantially crystallized to said crystalline turbostratic boron nitride.
- (Original) The method of claim 1, wherein said crystallizing is carried out at a temperature from 1200° C. to 1400° C.
- (Original) The method of claim 1, wherein said alkali-borate comprises sodium borate and/or hydrate thereof.
- (Original) The method of claim 1, wherein said alkali-borate in said mixture ranges from 0.01% to 20% by weight.
 - 6. (Original) The method of claim 1, further comprising:

purifying the crystalline turbostratic boron nitride by washing with an aqueous cleaning liquid to remove impurities after forming the crystalline turbostratic boron nitride.

7. A crystalline turbostratic boron nitride, wherein said crystalline turbostratic boron nitride has a (001) diffraction peak in an X-ray powder diffraction diagram with Cu Kα X-ray which corresponds to the [002] diffraction peak of hexagonal boron nitride.

said (001) diffraction peak having a dominant peak defined by two straight flank lines, and being located between 20 and 30 degrees of 20 and rising from a substantially flat portion of said X-ray diffraction diagram; and

said crystalline turbostratic boron nitride exhibits a combined (10) diffraction peak in the X-ray powder diffraction diagram around the site of [100] and [101] diffraction peaks of hexagonal boron nitride,

said combined (10) diffraction peak having a peak at a site which corresponds to the site of [100] diffraction of hexagonal boron nitride and exhibiting substantially no recognizable diffraction peak which corresponds to the [101] diffraction peak of hexagonal boron nitride,

8. A crystalline turbostratic boron nitride, wherein said crystalline turbostratic boron nitride has a (001) diffraction peak in an X-ray powder diffraction diagram with Cu Kα X-ray which corresponds to the [002] diffraction peak of hexagonal boron nitride.

said (001) diffraction peak having a dominant peak defined by two straight flank lines, and being located between 20 and 30 degrees of 2θ and rising from a substantially flat portion of said X-ray diffraction diagram;

said crystalline turbostratic boron nitride exhibits a combined (10) diffraction peak in the X-ray powder diffraction diagram around the site of [100] and [101] diffraction peaks of hexagonal boron nitride,

said combined (10) diffraction peak having peak at a site which corresponds to the site of

[100] diffraction of hexagonal boron nitride and exhibiting substantially no recognizable

diffraction peak which corresponds to the [101] diffraction peak of hexagonal boron nitride; and

said turbostratic boron nitride comprises primary particles having a substantially

spherical shape.

- 9. The crystalline turbostratic boron nitride as defined in claim 7, wherein said combined (10) diffraction peak has a shoulder and a sloped foot portion following the shoulder on a larger angle side of 20 where the [101] diffraction peak of hexagonal boron nitride appears.
- 10. The crystalline turbostratic boron nitride as defined in claim 8, wherein said combined (10) diffraction peak has a shoulder and a sloped foot portion following the shoulder on a larger angle side of 20 where the [101] diffraction peak of hexagonal boron nitride appears.

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- 11. The crystalline turbostratic boron nitride as defined in claim 7, wherein said (001) diffraction peak is the (001) diffraction peak shown in Figure 7 of Drawings, and said combined (10) diffraction peak is the (10) diffraction peak shown in Figure 7 of Drawings.
- 12. The crystalline turbostratic boron nitride as defined in claim 8, wherein said (001) diffraction peak is the (001) diffraction peak shown in Figure 7 of Drawings, and said combined (10) diffraction peak is the (10) diffraction peak shown in Figure 7 of Drawings.
- 13. The crystalline turbostratic boron nitride as defined in claim 7, wherein said crystalline turbostratic boron nitride has a primary particle size of approximately from 0.1 to 0.4 µm.
- 14. The crystalline turbostratic boron nitride as defined in claim 8, wherein said primary particles size of approximately from 0.1 to 0.4 μm.
- 15. The crystalline turbostratic boron nitride as defined in claim 7, wherein said crystalline turbostratic boron nitride has a primary particle size in the order of 0.2 to 0.3 μm,
- 16. The crystalline turbostratic boron nitride as defined in claim 8, wherein said primary particles have a size in the order of 0.2 to 0.3 μm.